

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-311-2  
Relating to Certification of New Motor Vehicles

VECTOR AEROMOTIVE CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year Vector Aeromotive Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TG25.7VJGFHK Displacement: 5.7 Liters (348 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Sequential Multiport Fuel Injection  
Dual Heated Oxygen Sensors  
Dual Warm Up Three Way Catalytic Converters  
Dual Three Way Catalytic Converters

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards (alternative in-use compliance standards in parentheses) for this engine family in grams per mile are:

| <u>Miles</u> | <u>Non-Methane<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> | <u>Carbon<br/>Monoxide (20°F)</u> |
|--------------|-------------------------------------|----------------------------|----------------------------|-----------------------------------|
| 50,000       | 0.25 (0.32)                         | 3.4 (5.2)                  | 0.4 (n/a)                  | 10.0 (n/a)                        |
| 100,000      | 0.31 (n/a)                          | 4.2 (n/a)                  | 0.6 (n/a)                  | n/a                               |

The certification exhaust emission values for this engine family in grams per mile are:

| <u>Miles</u> | <u>Non-Methane<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> | <u>Carbon<br/>Monoxide (20°F)</u> |
|--------------|-------------------------------------|----------------------------|----------------------------|-----------------------------------|
| 50,000       | 0.11                                | 2.1                        | 0.3                        | 7.9                               |
| 100,000      | 0.15                                | 3.1                        | 0.3                        | n/a                               |

BE IT FURTHER RESOLVED: That the listed vehicle models are permitted alternative in-use compliance as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," pursuant to provisions in the said standards and test procedures applicable to small-volume manufacturers.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", pursuant to provisions in said standards and test procedures applicable to small-volume manufacturers.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

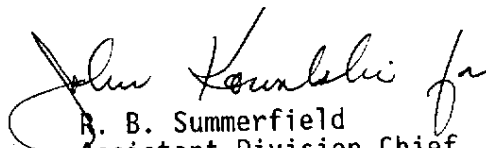
BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 13<sup>th</sup> day of December 1995.

  
R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESPage 1

Manufacturer: Vector Exh Eng Fam: TG25.7VJGFHK Evap Fam: TG21130AYMAE  
 All Eng Codes in Eng Fam: CA 49S 50S XX AB965  
 Exh Std: CA Tier-1 X TLEV LEV ULEV ZEV; US EPA Tier-1 X  
 Evap Std: 50K X Useful Life with R/L      In-Use Exh Std: Full In Use Alt In Use X  
 Veh Class(es): PC XX LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5  
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  
 Fuel Type(s): Dedicated XX Flex-Fuel Dual-Fuel Bi-Fuel Gasoline XX Diesel  
CNG LNG LPG M85 Other (specify)       
 Emiss Test Fuel(s): Indo XX Ph2 CNG LPG M85 Other (specify)       
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94  
 Service Accum: Std AMA XX Mod AMA Mfr ADP Other (specify) ADF  
 NMOG Test Procedure: N/A XX Std Equiv R/L Test Proc: SHED Pt Source  
 Hybrid: Type A B C, APU Cycle (e.g., Otto, Diesel, Turbine):       
 Engine Configuration: V-12 Displacement:      / 5.7 Liters      / 348 Cubic Inches  
 Valves per Cylinder: 4 Rated HP: 492 @ 6800 RPM  
 Engine: Front Mid XX Rear Drive: FWD RWD XX 4WD-FT 4WD-PT  
SFI, 2HO2S, 2WUTWC, 2TWC  
 Exhaust ECS (e.g., MFI, EGR, TC, CAC):       
 (use abbreviations per SAE J1930 SEP91)

| Engine Code<br>also list<br>CA/49ST/50ST | Vehicle Models<br>(if coded see<br>attachment) | Trans.<br>(M5, A4<br>etc.) | ETW<br>or<br>Test Wt. | DPA<br>or<br>RLHP | Ignition<br>(ECM/PCM)<br>Part No. | EGR<br>System<br>Part No. | Catalytic<br>Converter<br>Part No. |
|--|--|----------------------------|-----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 96<br>ENG L529/71<br><br>(50 ST)         | Avtechsc / M12                                 | M-5                        | 4000                  | 11.7              | 522-20-<br>35603                  | -----                     | 132-44-<br>31149                   |

Date Issued:

Revisions: